



PCT

REC'D 2 4 JUN 2004

INTERNATIONAL PRELIMINARY REPORT ON PATENTAL (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

				
Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416			
115417 PEL				
International application No. International fili	ng date (day/month/year) Priority date (day/month/year)			
PCT/SE 2002/001554 30.08.20	02			
International Patent Classification (IPC) or national classific	cation and IPC			
H01Q 3/01, H01Q 21/00, G01S 3/	38			
Applicant				
Telefonaktiebolaget LM Ericsson et al				
This report is the international preliminary examinated Authority under Article 35 and transmitted to the a	tion report, established by this International Preliminary Examining pplicant according to Article 36.			
2. This REPORT consists of a total of 3	sheets, including this cover sheet.			
This report is also accompanied by ANNEXES, cor	-			
a. (sent to the applicant and to the Intern				
	s and/or drawings which have been amended and are the basis of this report cations authorized by this Authority (see Rule 70.16 and Section 607 of the			
•	sheets, but which this Authority considers contain an amendment that goes			
	ternational application as filed, as indicated in item 4 of Box No. I and the			
	a total of (indicate type and number of electronic carrier(s))			
	containing a sequence listing and/or tables related thereto, in computer Supplemental Box Relating to Sequence Listing (see Section 802 of the			
Administrative Instructions).				
4. This report contains indications relating to the follo	owing items:			
Box No. I Basis of the report				
Box No. II Priority				
Box No. III Non-establishment of op	inion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under	er Article 35(2) with regard to novelty, inventive step or industrial			
applicability; citations ar Box No. VI Certain documents cited	nd explanations supporting such statement			
Box No. VII Certain defects in the int	ernational application			
	the international application			
	monatona approación			
Date of submission of the demand	Date of completion of this report			
15.03.2004	21.05.2004			
Name and mailing address of the IPEA/SE	Authorized officer			
Patent- och registreringsverket				
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Form PCT/IPEA/409 (cover sheet) (January 2004)



crnational application No.

PCT/SE 2002/001554

Box	No. I	Basis of the report
1.		egard to the language, this report is based on the international application in the language in which it was filed, unless ise indicated under this item.
		This report is based on a translation from the original language into the following language, which is the language of a translation furnished for the purposes of:
		international search (under Rules 12.3 and 23.1(b))
		publication of the international application (under Rule 12.4)
		international preliminary examination (under Rules 55.2 and/or 55.3)
2.	furnish	regard to the elements of the international application, this report is based on (replacement sheets which have been need to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" are not annexed to this report):
	\boxtimes	the international application as originally filed/furnished
		the description:
		pages as originally filed/furnished
		pages* received by this Authority on
	_	pages* received by this Authority on
		the claims:
		pages as originally filed/furnished pages* as amended (together with any statement) under Article 19
•		pages* received by this Authority on received by this Authority on
		the drawings:
	ш	as originally filed/firmiched
		pages as originally meditimished pages* received by this Authority on
		pages* received by this Authority on
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
		any table(s) related to the sequence issuing (specty).
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages
		the claims, Nos.
		the drawings, sheets/figs
		the sequence listing (specify):
		any table(s) related to the sequence listing (specify):
*	If item	s 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

anational application No.

PCT/SE 2002/001554

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement

Novelty (N) Claims YES <u>1-11</u> Claims NO Inventive step (IS) Claims YES 1-11 Claims NO Claims Industrial applicability (IA) YES Claims NO

2. Citations and explanations (Rule 70.7)

This report is based on the claims as originally filed.

Documents cited in the International Search Report:

- 1. EP 0520489 A2
- 2. US 4513385 A
- 3. US 6178140 B1
- 4. Hodjat, F. et al "Nonuniformly spaced linear and planar array antennas for sidelobe reduction", Antennas and Propagation, IEEE Transactions, Pages 198-204, vol. 26, No. 2, March 1978.

The cited documents represent the general state of the art.

The invention defined in claims 1-11 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method for enhancing the ratio between the main lobe and grating lobes in an antenna array. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-11 is novel and is considered to involve an inventive step. The invention is industrially applicable.